

South Carolina Department of Health and Environmental Control  
Division of Ocean and Coastal Resource Management  
1362 McMillan Avenue, Suite 400  
Charleston, South Carolina 29405

**June 12, 2015**  
**Permit Application Public Notice**

***Cynthia Hernandez, OCRM-15-175-B***

The Department has received an application for a permit for the alteration of a critical area. The application was submitted pursuant to the Coastal Zone Management Act (Act 123) of 1977 South Carolina General Assembly. The application in brief, is described as follows:

**LOCATION:** On and adjacent to Hobcaw Creek at 338 Coinbow Drive, Mount Pleasant, Charleston County, South Carolina.  
TMS: 514-03-00-050, 057.

**WORK:** The work as proposed consists of reconstruction of an existing dam and erosion control. Specifically, the applicant seeks to reconstruct components of the existing dam as shown and described in the notice attachment. The applicant also seeks to install riprap in areas for proposed scour protection and along the inside of Hobcaw Lake to protect the waterline and trees from further erosion. The work as described is for restoration to an existing dam and erosion control.

This public notice is being distributed to all known interested persons and agencies to assist in developing facts on which a decision by the Department can be based. Comments concerning the proposed work must be submitted in writing, setting forth sufficient detail to furnish a clear understanding of the reasons for support or opposition.

Comments regarding this application must be received by the Department on or before **July 12, 2015**. For more information, please contact:  
**Steve Brooks at 843-953-0235 or via email at [brookss@dhec.sc.gov](mailto:brookss@dhec.sc.gov).**

**NOTE:** Plans depicting the proposed work are available and will be provided upon receipt of a written request or may be viewed on the Department website at  
**<http://www.scdhec.gov/Apps/Environment/PublicNotices>.**

## Exhibit A

### Project Description

#### Background

Cynthia Hernandez is proposing to reconstruct the existing dam on Hobcaw Lake in Mount Pleasant, South Carolina. The existing dam that had been constructed on portions of an abandoned drydock (circa 1950s) began to leak and exhibit signs of imminent failure in June 2011. The timber flashboard riser members were removed to relieve pressure on the structure, prevent the water from enlarging the hydraulic bypass and undermining the concrete slab and wing wall (portions of the former drydock structure). A Maintenance and Repair Permit (73437 NMR) was granted by OCRM to reconstruct the dam. A condition assessment revealed that replacing the existing structure "in kind" was not the best course of action for the long-term performance of the dam. The applicant's contractor prepared a design for a dam repair that was located landward of the existing dam and within the footprint of the original drydock's concrete slab. During the course of construction unforeseen site conditions necessitated a change to the design. This occurred around the same time as the expiration of the Maintenance and Repair Permit. OCRM staff recommended to the applicant that they obtain a new permit for the dam and shoreline stabilization in Hobcaw Lake.

#### Purpose and Need

The purpose of the proposed dam reconstruction is to restore the structure that maintains appropriate water level and water quality within Hobcaw Lake. The purpose of the shoreline armoring is to prevent erosion and loss of significant trees as well as to improve water quality in Hobcaw Lake by minimizing sediment runoff caused by shoreline erosion.

#### Location

Hobcaw Lake is located adjacent to 338 Coinbow Drive in Mount Pleasant, Charleston County, South Carolina (see Sheet 1). The dam structure is located on the south shoreline of Hobcaw Creek approximately 0.4 miles from the confluence with the Wando River (Lat. 32° 53' 21" N, Lon. 79° 56' 09" W). To reach the facility from Charleston, head north on US Highway 17 over the Ravenel Bridge. After entering Mount Pleasant, turn left at the second stoplight onto Mathis Ferry Road. At the first roundabout, proceed north on Muirhead Road. Follow Muirhead Road for approximately 0.8 miles and turn right on Coinbow Drive. The Hernandez residence and the Hobcaw Lake dam are located at the terminus of Coinbow Drive.

#### Project Dimensions and Impacts

The existing dam was built at the entrance to an abandoned concrete drydock structure that dates from the 1950s (see Sheet 3 of the drawings for approximate limits of the footprint). Two concrete wing walls with cast-in-place channels held 10 x 10 timbers that functioned as a flashboard riser and allowed the water level in the Lake to be managed (the timbers had not been modified in many years).

The proposed dam replacement will consist of the following:

- Approximately seventy-five (75) linear feet of vinyl sheet piling will be driven through a trench cut out from the concrete drydock slab as well as the adjacent dikes (top elevation: 3.0 MLLW, tip elevation: -9.0 MLLW) to block the hydraulic bypass.
- An earth dike will be constructed around and over the cantilevered sheetpile wall to provide lateral structural support (200 cy of clean fill material). The earthen dike will be covered with filter fabric and armored with a layer of #4 stone (15 cy of stone).
- A cast in place concrete slab will be poured over the stone to protect them from scour (20 cy of concrete).
- The concrete slab will be cast with a spillway that measures 10 ft x 28 ft with an elevation of 5.25 MLLW. This elevation is identical to the elevation of the old flashboard riser and will allow an exchange of water in the pond over most normal tidal cycles.
- The footprint of the dam fill occupies an area of approximately 1,000 sf; however, it should be noted that the majority of the fill lies within the footprint of the existing concrete drydock structure.
- Armoring approximately 200 linear feet of the shoreline in Hobcaw Lake with riprap (including the dam). This action will prevent additional loss of shoreline and the loss of several significant trees that are at risk from the current erosion. Around two of the trees, it will be necessary to reclaim approximately 5 feet of high ground to provide adequate support and protection to preserve the health of the trees (see attached letter from Nathan Dubosh, ISA Certified Arborist, S0-6652A). The shoreline protection will require approximately 225 cy of fill and 115 cy of riprap and will impact an area of approximately 2,500 sf.

As the impacts are temporary and minimal, no mitigation is proposed.

As a courtesy, the applicant has reviewed the proposed reconfiguration plans with the adjacent property owners along Hobcaw Lake.

A list of Adjacent Property Owners and their mailing addresses is provided as Exhibit B.

The completed and notarized Affidavit of Ownership or Control is provided as Exhibit C.

A statement the project is consistent with the SC Coastal Zone Management Program is provided as Exhibit D.

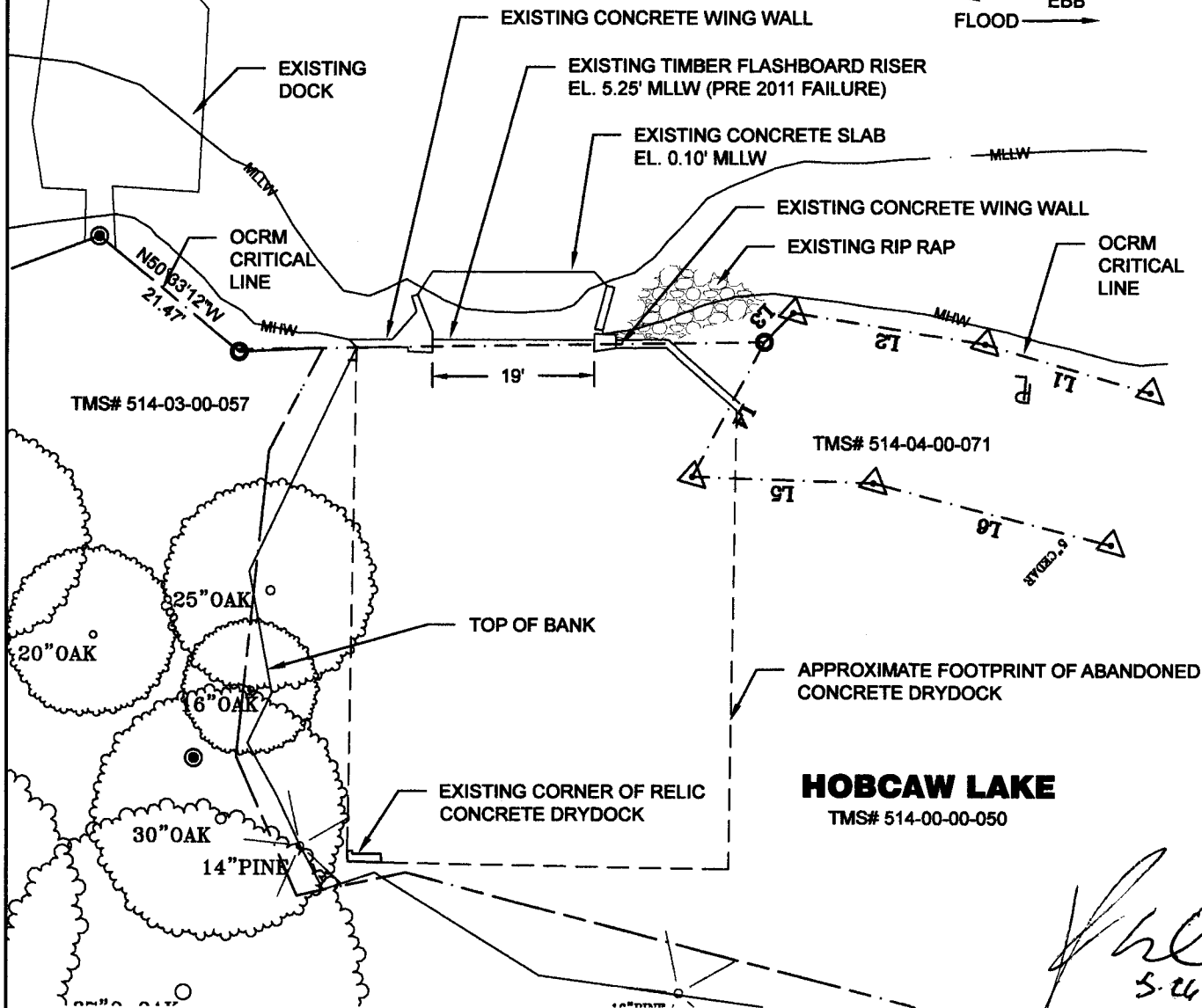
A copy of the letter from Nathan Dubosh, ISA Certified Arborist, S0-6652A is included as Exhibit E.

A copy of the Court Order appointing Charles Carmody as the Receiver is included as Exhibit F.

RECEIVED  
MAY 26 2015  
DHEC-OCRM  
CHARLESTON OFFICE

# HOBCAW CREEK

EBB  
FLOOD



## HOBCAW LAKE

TMS# 514-00-00-050

### NOTES:

1. THE CRITICAL AREA LINE SHOWN ON THESE DRAWINGS IS TAKEN DIRECTLY FROM THE NOVEMBER 5, 2012 "DRAWING SHOWING THE CRITICAL LINE, SHIPYARD AR HOBCAW POINT, TOWN OF MOUNT PLEASANT, CHARLESTON COUNTY, SC". THIS PLAT WAS CERTIFIED BY STEVE BROOKS ON DECEMBER 4, 2012.
2. THESE PERMIT DRAWINGS DO NOT REPRESENT A LAND SURVEY, WERE NOT PREPARED FOR RECORDATION, AND ARE NOT SUITABLE FOR DEEDING OF PROPERTY. NO GROUND SURVEY WAS PERFORMED.
3. THE INFORMATION AND LOCATIONS CONTAINED HEREIN HAVE BEEN COMPILED FROM MULTIPLE SOURCES.
4. SIGNED COPIES OF THESE PERMIT DRAWINGS ARE CONCEPTUAL IN NATURE. ANY REQUIRED DESIGN OR CONSTRUCTION PLANS FOR PROPOSED IMPROVEMENTS SHOULD BE REVIEWED AND APPROVED BY A DESIGN PROFESSIONAL.
5. SEE SHEET 4 FOR PROPOSED IMPROVEMENTS.

FOR PERMITTING PURPOSES ONLY. NOT FOR CONSTRUCTION.



NORTH



SCALE: 1" = 20'

PURPOSE: DAM REPLACEMENT  
DATUM: MLLW  
APPLICATION BY: CYNTHIA HERNANDEZ

USACE #: N/A  
ADJACENT PROPERTY OWNERS: SEE ATTACHED  
DATE: 5/5/15

### EXISTING CONDITIONS

CYNTHIA HERNANDEZ  
338 COINBOW DRIVE  
CHARLESTON, SC 29464

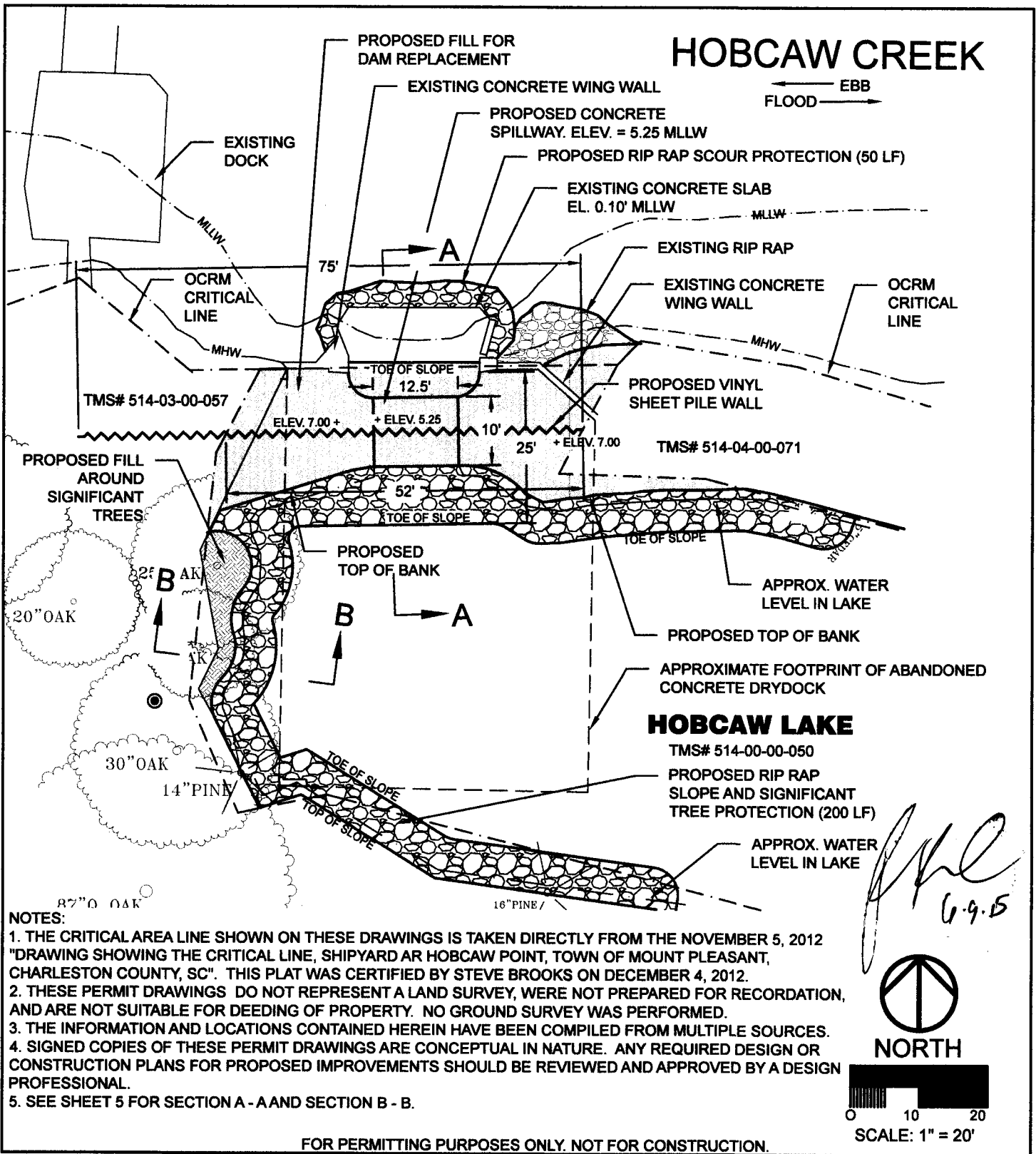
PROPOSED: RECONSTRUCTION OF  
HOBCAW LAKE DAM  
AT: HOBCAW CREEK AND TERMINUS  
OF COINBOW DRIVE  
COUNTY OF: CHARLESTON  
STATE: SOUTH CAROLINA

SHEET 3

OCRM-15-175-B

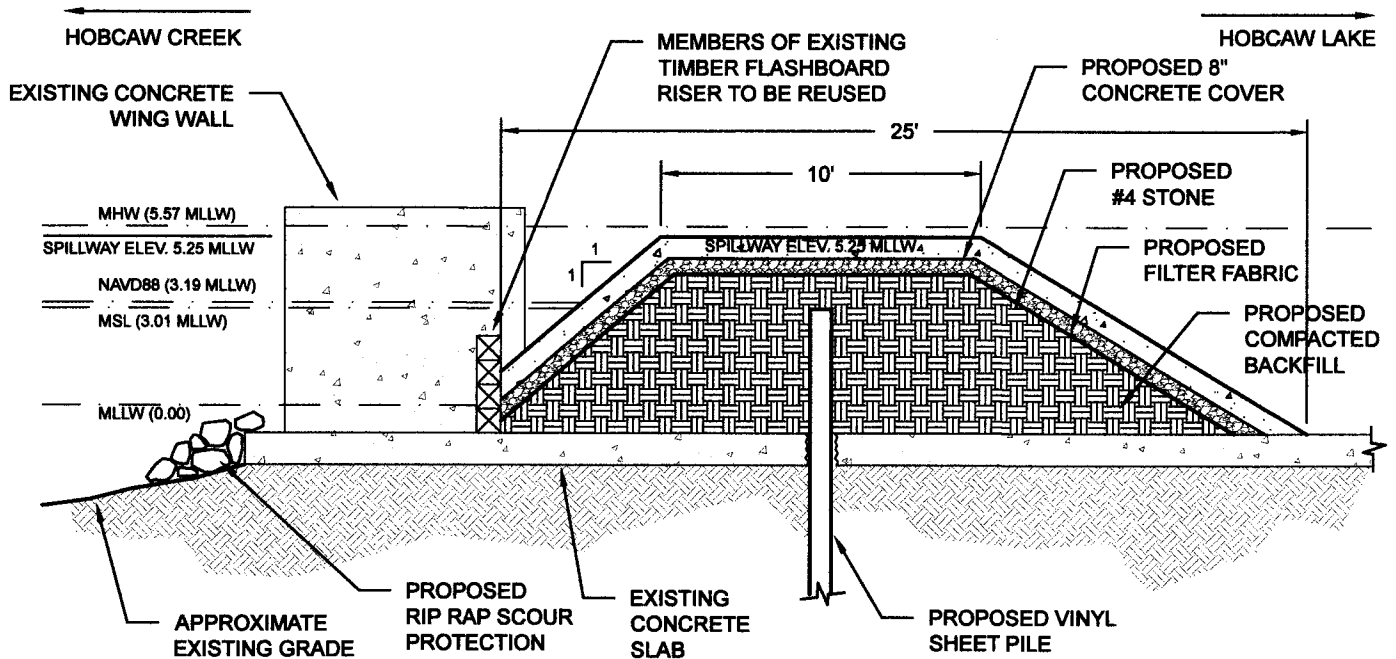


# HOBCAW CREEK



<p><b>PURPOSE:</b> DAM REPLACEMENT</p> <p><b>DATUM:</b> MLLW</p> <p><b>APPLICATION BY:</b> CYNTHIA HERNANDEZ</p> <p><b>USACE #:</b> N/A</p> <p><b>ADJACENT PROPERTY OWNERS:</b> SEE ATTACHED</p> <p><b>DATE:</b> 5/5/15 <b>REV:</b> 6/5/15</p>	<p><b>PROPOSED IMPROVEMENTS</b></p> <p>CYNTHIA HERNANDEZ 338 COINBOW DRIVE CHARLESTON, SC 29464</p>	<p><b>PROPOSED:</b> RECONSTRUCTION OF HOBCAW LAKE DAM</p> <p><b>AT:</b> HOBCAW CREEK AND TERMINUS OF COINBOW DRIVE</p> <p><b>COUNTY OF:</b> CHARLESTON</p> <p><b>STATE:</b> SOUTH CAROLINA</p> <p>SHEET 4</p>
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OCRM-15-175-B

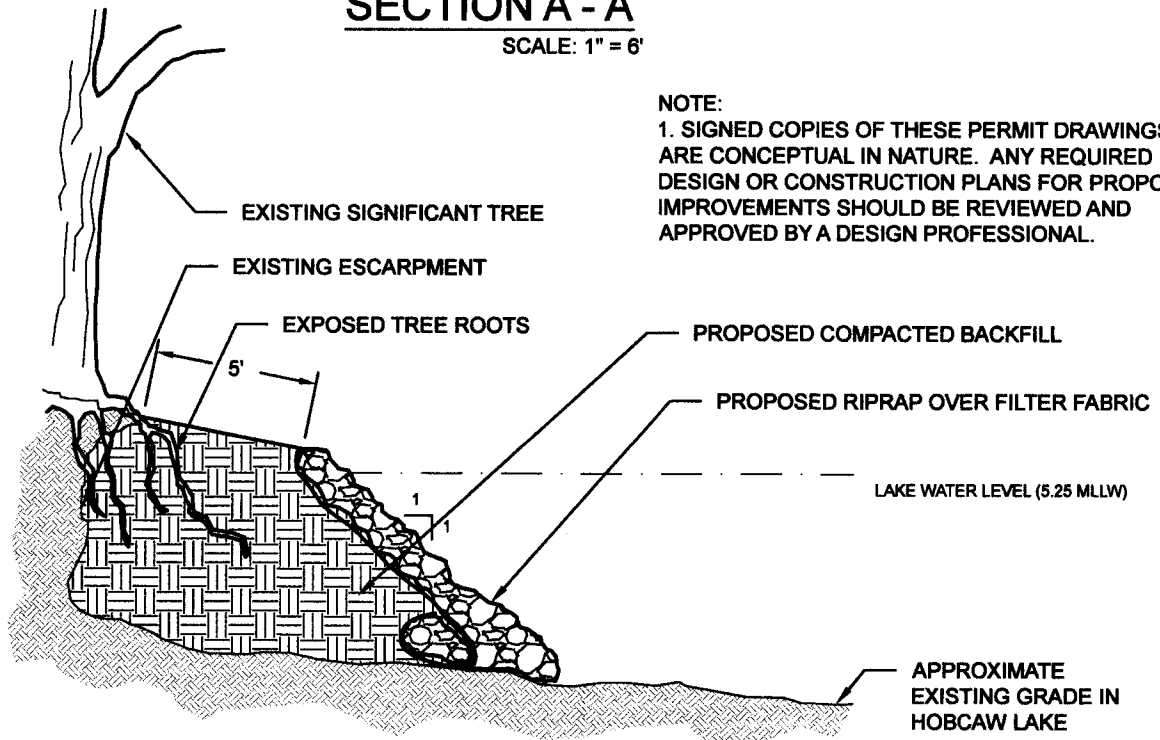


## SECTION A - A

SCALE: 1" = 6'

### NOTE:

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## SECTION B - B

SCALE: 1" = 6'

FOR PERMITTING PURPOSES ONLY. NOT FOR CONSTRUCTION.

PURPOSE: DAM REPLACEMENT  
 DATUM: MLLW  
 APPLICATION BY: CYNTHIA HERNANDEZ

USACE #: N/A  
 ADJACENT PROPERTY OWNERS: SEE ATTACHED  
 DATE: 5/5/15

SECTION A - A  
 SECTION B - B

CYNTHIA HERNANDEZ  
 338 COINBOW DRIVE  
 CHARLESTON, SC 29464

PROPOSED: RECONSTRUCTION OF  
 HOBCAW LAKE DAM  
 AT: HOBCAW CREEK AND TERMINUS  
 OF COINBOW DRIVE  
 COUNTY OF: CHARLESTON  
 STATE: SOUTH CAROLINA

SHEET 5

02M-15-175-B

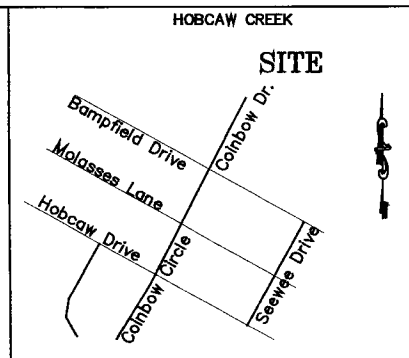
NOTES:

- 1.) THE INTENT OF THIS DRAWING IS TO SHOW THE LOCATION OF SC DHEC-OCRM CRITICAL LINE FLAGS.
- 2.) THIS PROPERTY APPEARS TO BE LOCATED IN FLOOD ZONE "AE" (EL 13) AS DETERMINED BY SCALING FROM FEMA FIRM PANEL #45019C 0509J, DATED NOVEMBER 17, 2004. BEFORE CONSTRUCTION AN APPROPRIATE LOCAL BUILDING OFFICIAL SHOULD VERIFY ZONES.
- 3.) THIS PLAT REPRESENTS A SURVEY BASED ON THE LISTED REFERENCES AND IS NOT THE RESULT OF A TITLE SEARCH.
- 4.) USE OF UNSEALED COPIES OF THIS DOCUMENT IN ANY COURT, FINANCIAL OR LAND TRANSACTION, OR FILING WITH ANY PUBLIC AGENCY OR OFFICE IS UNAUTHORIZED USE AND IS A VIOLATION OF FEDERAL COPYRIGHT LAWS.

CHARLESTON CO. R.M.C.

REFERENCES:

- 1) TMS# 514-03-00-057
- 2) PLAT BY JAMES T. REID  
DATED: FEBRUARY 5, 2008  
PLAT BOOK EL, PAGE 429



LOCATION MAP (NOT TO SCALE)

LEGEND

● IRON PIPE FOUND (AS NOTED)

○ CALCULATED POINT

△ WETLAND FLAG

EXIST. CRITICAL LINE

NEW CRITICAL LINE

THE AREA SHOWN ON THIS PLAT IS A GENERAL REPRESENTATION OF DEPARTMENT PERMIT AUTHORITY ON THE SUBJECT PROPERTY. CRITICAL AREAS, BY THEIR NATURE, ARE DYNAMIC AND SUBJECT TO CHANGE OVER TIME. BY DELINEATING THE PERMIT AUTHORITY OF THE DEPARTMENT IN NO WAY WAIVES ITS RIGHT TO ASSERT PERMIT JURISDICTION AT ANY TIME IN ANY CRITICAL AREA ON THE SUBJECT PROPERTY WHETHER SHOWN HEREON OR NOT.

*James T. Reid*

12/4/12

SIGNATURE

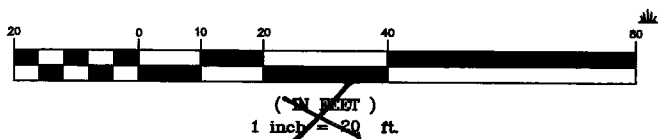
DATE

The critical line shown on this plat is valid for five years from the date of this signature, subject to the cautionary language above.

LINE	LENGTH	BEARING
L1	20.36	N73°30'28"W
L2	23.02	N80°51'26"W
L3	4.85	S44°51'07"W
L4	18.00	N28°20'08"E
L5	21.44	S87°55'10"E
L6	29.08	S75°29'09"E

HOBCAW CREEK

DRAWING SHOWING THE  
OCRM CRITICAL LINE  
SHIPYARD AT HOBCAW POINT  
TOWN OF MT. PLEASANT  
CHARLESTON COUNTY SOUTH CAROLINA  
DATE: NOVEMBER 5, 2012 SCALE: 1"=20'



I, JAMES T. REID, REGISTERED LAND SURVEYOR OF THE STATE OF SOUTH CAROLINA, DO HEREBY CERTIFY, TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, THAT THE WETLAND SURVEY SHOWN HEREON WAS MADE IN ACCORDANCE WITH THE REQUIREMENTS OF THE SOUTH CAROLINA MINIMUM STANDARDS MANUAL. THIS SURVEY IS INTENDED ONLY TO SHOW THE LOCATION OF A OCRM CRITICAL LINE; THAT LINE AND TIE LINES SHOWN ARE BASED ON ACTUAL FIELD SURVEY EVIDENCE WHICH MEETS OR EXCEEDS THE REQUIREMENTS FOR A CLASS A SURVEY AS SPECIFIED THEREIN. THIS DRAWING DOES NOT REPRESENT A LAND SURVEY AND IS UNSUITABLE FOR DEEDING OF PROPERTY OR RECORDATION.

JAMES T. REID P.L.S. S.C. No.17228

REID SURVEYING, LLC

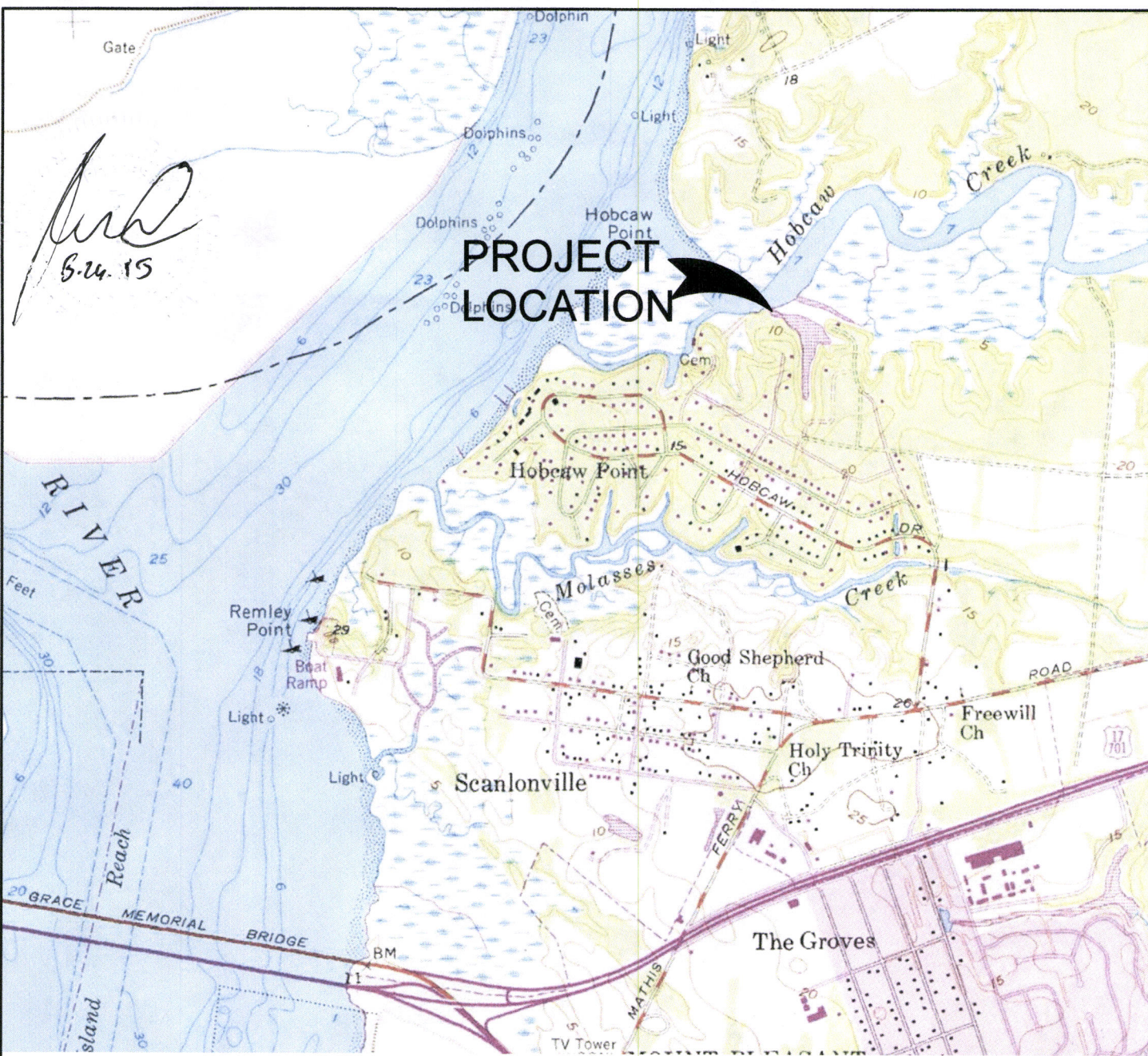
PO BOX 20182 CHARLESTON, SC 29413  
(843) 367-1412 FAX (843) 300-1107



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Reduced  
NTS

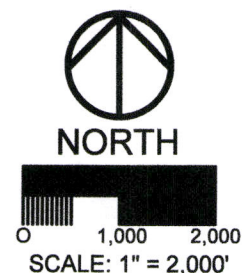




SOURCE: USGS 7.5 MIN. TOPOGRAPHIC  
QUADRANGLE "CHARLESTON, SC"  
OBTAINED FROM SCDNR GIS DATABASE.

OCRM-15-175-B

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COUNTY OF: CHARLESTON  
STATE: SOUTH CAROLINA

SHEET 1